

In the Claims

Listing of Claims:

1-25 (canceled)

26. (original) A kit for identifying the presence of a mismatch between two substantially complementary DNA sequences, the kit comprising: a first DNA vector comprising a gene encoding a detectable marker, an origin of replication active in a bacterial host cell, and a sequence(s) of interest, wherein said vector lacks methyl adenine; and a substantially complementary second vector, wherein said gene encoding said detectable marker further comprises an inactivating insertion, deletion or substitution of at least 5 nt, wherein said vector comprises methyl adenine at GATC sites.

27. (new) The kit according to Claim 26, wherein said first strand and said substantially complementary second strand further comprise a selectable marker, and a polylinker having multiple sites for restriction endonucleases.

28. (new) The kit according to Claim 26, wherein said first DNA vector is single stranded.

29. (new) The kit according to Claim 28, wherein second DNA vector is single stranded.

30. (new) The kit according to Claim 29, wherein said first DNA vector and said second DNA vector are annealed.

31. (new) The kit according to Claim 26, further comprising competent host bacteria.

32. (new) The kit according to Claim 31, wherein said competent host bacteria are an MMR strain.

33. (new) The kit according to Claim 26, further comprising a thermostable polymerase and amplification primers.

34. (new) The kit according to Claim 26, wherein said detectable marker is a site specific recombinase.

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35. (new) The kit according to Claim 26, wherein said site specific recombinase is cre recombinase.